

SEQUENCE LISTING

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<120> BI-FUNCTIONAL CANCER TREATMENT AGENTS

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<160> 33

<170> PatentIn Ver. 2.1

<210> 1

<211> 227

<212> PRT

<213> Homo sapiens

<400> 1

Met Asn Ile Lys Gly Ser Pro Trp Lys Gly Ser Leu Leu Leu Leu Leu
1 5 10 15

Val Ser Asn Leu Leu Leu Cys Gln Ser Val Ala Pro Leu Pro Ile Cys
20 25 30

Pro Gly Gly Ala Ala Arg Cys Gln Val Thr Leu Arg Asp Leu Phe Asp
35 40 45

Arg Ala Val Val Leu Ser His Tyr Ile His Asn Leu Ser Ser Glu Met
50 55 60

Phe Ser Glu Phe Asp Lys Arg Tyr Thr His Gly Arg Gly Phe Ile Thr
65 70 75 80

Lys Ala Ile Asn Ser Cys His Thr Ser Ser Leu Ala Thr Pro Glu Asp
85 90 95

Lys Glu Gln Ala Gln Gln Met Asn Gln Lys Asp Phe Leu Ser Leu Ile
100 105 110

Val Ser Ile Leu Arg Ser Trp Asn Glu Pro Leu Tyr His Leu Val Thr
115 120 125

Glu Val Arg Gly Met Gln Glu Ala Pro Glu Ala Ile Leu Ser Lys Ala
130 135 140

Val Glu Ile Glu Glu Gln Thr Lys Arg Leu Leu Glu Gly Met Glu Leu
145 150 155 160

Ile Val Ser Gln Val His Pro Glu Thr Lys Glu Asn Glu Ile Tyr Pro
165 170 175



Val Trp Ser Gly Leu Pro Ser Leu Gln Met Ala Asp Glu Glu Ser Arg
 180 185 190

Leu Ser Ala Tyr Tyr Asn Leu Leu His Cys Leu Arg Arg Asp Ser His
 195 200 205

Lys Ile Asp Asn Tyr Leu Lys Leu Leu Lys Cys Arg Ile Ile His Asn
 210 215 220

Asn Asn Cys
 225

<210> 2
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 2
 Ile Glu Glu Gln Thr Lys Arg Leu Leu Arg Gly Met Glu Leu Ile Val
 1 5 10 15

Ser Gln Val His Pro
 20

<210> 3
 <211> 21
 <212> PRT
 <213> Rattus sp.

<400> 3
 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Ile Glu Lys Ile Ile
 1 5 10 15

Gly Gln Ala Tyr Pro
 20

<210> 4
 <211> 21
 <212> PRT
 <213> Mus sp.

<400> 4
 Ile Glu Glu Gln Asn Lys Gln Leu Leu Glu Gly Val Glu Lys Ile Ile
 1 5 10 15

Ser Gln Ala Tyr Pro
 20

<210> 5
 <211> 21
 <212> PRT
 <213> Cricetus sp.

<400> 5

Ile	Gly	Glu	Gln	Asn	Lys	Arg	Leu	Leu	Glu	Gly	Ile	Glu	Lys	Ile	Leu
1				5					10					15	

Gly	Gln	Ala	Tyr	Pro
				20

<210> 6

<211> 21

<212> PRT

<213> Cetacea sp.

<400> 6

Glu	Glu	Glu	Glu	Asn	Lys	Arg	Leu	Leu	Glu	Gly	Met	Glu	Lys	Ile	Val
1				5					10					15	

Gly	Gln	Val	His	Pro
				20

<210> 7

<211> 21

<212> PRT

<213> Mustela sp.

<400> 7

Ile	Glu	Glu	Glu	Asn	Arg	Arg	Leu	Leu	Glu	Gly	Met	Glu	Lys	Ile	Val
1				5					10					15	

Gly	Gln	Val	His	Pro
				20

<210> 8

<211> 21

<212> PRT

<213> Bos sp.

<400> 8

Ile	Glu	Glu	Gln	Asn	Lys	Arg	Leu	Ile	Glu	Gly	Met	Glu	Met	Ile	Phe
1				5					10					15	

Gly	Gln	Val	Ile	Pro
				20

<210> 9

<211> 21

<212> PRT

<213> Ovis sp.

<400> 9

Glu	Glu	Glu	Glu	Asn	Lys	Arg	Leu	Leu	Glu	Gly	Met	Glu	Asn	Ile	Phe
1				5					10					15	

Gly	Gln	Val	Ile	Pro
				20

<210> 10
 <211> 21
 <212> PRT
 <213> Porcine sp.

<400> 10
 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 1 5 10 15

Gly Gln Val His Pro
 20

<210> 11
 <211> 21
 <212> PRT
 <213> Camelus sp.

<400> 11
 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 1 5 10 15

Gly Gln Val His Pro
 20

<210> 12
 <211> 21
 <212> PRT
 <213> Equus caballus

<400> 12
 Glu Ile Glu Gln Asn Arg Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 1 5 10 15

Gly Gln Val Gln Pro
 20

<210> 13
 <211> 21
 <212> PRT
 <213> Elephantus sp.

<400> 13
 Val Lys Glu Glu Asn Gln Arg Leu Leu Glu Gly Ile Glu Lys Ile Val
 1 5 10 15

Asp Gln Val His Pro
 20

<210> 14
 <211> 21
 <212> PRT
 <213> Unknown Organism

<220>

<223> Description of Unknown Organism: Ancestral mammal

<400> 14

Ile Glu Glu Glu Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 1 5 10 15

Gly Gln Val His Pro
 20

<210> 15

<211> 21

<212> PRT

<213> Gallus sp.

<400> 15

Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 1 5 10 15

Gly Arg Val His Ser
 20

<210> 16

<211> 21

<212> PRT

<213> Meleagris gallopavo

<400> 16

Ile Glu Glu Gln Asp Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 1 5 10 15

Gly Arg Ile His Ser
 20

<210> 17

<211> 21

<212> PRT

<213> Turtur sp.

<400> 17

Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 1 5 10 15

Gly Gln Val His Pro
 20

<210> 18

<211> 21

<212> PRT

<213> Crocodilus sp.

<400> 18

Ile	Glu	Glu	Gln	Asn	Lys	Arg	Leu	Leu	Glu	Gly	Met	Glu	Lys	Ile	Ile
1				5					10					15	

Gly	Arg	Val	Gln	Pro
				20

<210> 19

<211> 21

<212> PRT

<213> Lacerta sp.

<400> 19

Ile	Glu	Glu	Gln	Asn	Lys	Arg	Leu	Leu	Glu	Gly	Met	Glu	Lys	Val	Ile
1				5					10					15	

Gly	Arg	Val	Gln	Pro
				20

<210> 20

<211> 21

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Ancestral amniote

<400> 20

Ile	Glu	Glu	Gln	Asn	Lys	Arg	Leu	Leu	Glu	Gly	Met	Glu	Lys	Ile	Val
1				5					10					15	

Gly	Gln	Val	His	Pro
				20

<210> 21

<211> 21

<212> PRT

<213> Xenopus sp.

<400> 21

Val	Glu	Glu	Gln	Asn	Lys	Arg	Leu	Leu	Glu	Gly	Met	Glu	Lys	Ile	Val
1				5					10					15	

Gly	Arg	Ile	His	Pro
				20

<210> 22

<211> 21

<212> PRT

<213> Rana catesbeiana

<400> 22

Val	Glu	Glu	Gln	Thr	Lys	Arg	Leu	Leu	Glu	Gly	Met	Glu	Arg	Ile	Ile
1				5					10					15	

Gly Arg Ile Gln Pro
20

<210> 23
<211> 21
<212> PRT
<213> Dipnoi sp.

<400> 23
Val Glu Asp Gln Thr Lys Gln Leu Ile Glu Gly Met Glu Lys Ile Leu
1 5 10 15

Ser Arg Met His Pro
20

<210> 24
<211> 21
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Tilapia

<400> 24
Met Gln Gln Tyr Ser Lys Ser Leu Lys Asp Gly Leu Asp Val Leu Ser
1 5 10 15

Ser Lys Met Gly Ser
20

<210> 25
<211> 21
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Tilapia

<400> 25
Met Gln Glu His Ser Lys Asp Leu Lys Asp Gly Leu Asp Ile Leu Ser
1 5 10 15

Ser Lys Met Gly Pro
20

<210> 26
<211> 21
<212> PRT
<213> Cyprinus carpio

<400> 26
Leu Gln Glu Asn Ile Asn Ser Leu Gly Ala Gly Leu Glu His Val Phe
1 5 10 15

Asn Lys Met Asp Ser
20

<210> 27
<211> 21
<212> PRT
<213> *Cyprinus carpio*

<400> 27
Leu Gln Asp Asn Ile Asn Ser Leu Gly Ala Gly Leu Glu Arg Val Val
1 5 10 15

His Lys Met Gly Ser
20

<210> 28
<211> 21
<212> PRT
<213> *Cyprinus carpio*

<400> 28
Leu Gln Asp Asn Ile Asn Ser Leu Val Pro Gly Leu Glu His Val Val
1 5 10 15

His Lys Met Gly Ser
20

<210> 29
<211> 21
<212> PRT
<213> *Salmonis sp.*

<400> 29
Leu Gln Asp Tyr Ser Lys Ser Leu Gly Asp Gly Leu Asp Ile Met Val
1 5 10 15

Asn Lys Met Gly Pro
20

<210> 30
<211> 21
<212> PRT
<213> *Oncorhynchus tshawytscha*

<400> 30
Leu Gln Asp Tyr Ser Lys Ser Leu Gly Asp Gly Leu Asp Ile Met Val
1 5 10 15

Asn Lys Met Gly Pro
20

<210> 31
 <211> 21
 <212> PRT
 <213> Tructa sp.

<400> 31
 Leu Gln Asp Tyr Ser Lys Ser Leu Gly Asp Gly Leu Asp Ile Met Val
 1 5 10 15
 Asn Lys Met Gly Pro
 20

<210> 32
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 32
 Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met
 1 5 10 15
 Arg Glu Leu Glu Asp Gly
 20

<210> 33
 <211> 22
 <212> PRT
 <213> Bovine sp.

<400> 33
 Val Tyr Glu Lys Leu Lys Asp Leu Glu Glu Gly Ile Leu Ala Leu Met
 1 5 10 15
 Arg Glu Leu Glu Asp Gly
 20